



General Box

Contents

How to use the manual	4
Terminology and signs	5
Company's liabilities	7
Guarantee	7
Main parts description	10
Technical details	12
Unboxing	14
How to move the device	14
Environmental conditions	15
Installation	17
General safety	20
Safety measures of device	21
Cleaning	23
Periodical maintenance	23
Suction bag replacement	26

Dear Customer

We thank you for your selectivity and trust in purchasing domestically produced products, and we are pleased that after continuous efforts, we have been able to manufacture General Box and put it at your disposal.

This product has been designed by our technical and engineering team of experienced and committed people in the fields of mechanic, electronics and computer engineering, and by utilizing updated technology and building upon 25 years of experience in manufacturing dental equipment, this product has reached production of export index quality.

In designing the product, three principles of accuracy, reliability and safety performance and also user friendly have been considered, so in order to use the product features correctly and completely utilize product features, we ask you to read the instruction manual carefully and if you have any questions or you need more information, contact the after-sales department.

The instruction manual is a comprehensive reference for the efficient and safe use of the product. Following the instructions of this manual has a great role in reducing consumable costs, avoiding risks and ultimately increasing product life. The instruction manual should always be kept near the product and the user should periodically read it.

Please impart us with your constructive guidance, so that we can benefit from your comments, recommendations, and gain knowledge about your needs.

**We hope that you will find using General Box to be an enjoyable and successful experience,
Polaris Engineering and Manufacturing**



General Box

Introduction

(1-1) How to use the manual

This manual presents the instructions about use, installation, and maintenance of Steam Cleaner made by Polaris Co. It should be noted that:

- The product should be used according to the instructions of this manual. Thus, all parts of it should be read carefully before starting and installing the tool. Special attention should be paid to the highlighted parts. (see section 2-1).
- Observing the instructions of the manual assures the health and safe operation of the tool.
- Manual is an integral part of the product. Thus, it should always come with the product and should be used optimally as a reference for use during the operation of the product. It should be available even during the sale of the product, or even when it is not used.
- In case of losing or damaging the manual, get a replacement one from the after-sales service department of Polaris Co.

The following are explained in detail in this manual:

- Installation and start-up of the product
- Operation details of the product and its parts
- Maintenance program
- Primary safety and preventive details

(1-2) Terminology and signs

Knowledge of signs meanings is of great importance. A list of signs has been introduced in the following for initial recognition and reference to them if necessary.



Danger!

Indicates compulsory warnings.



Warning!

Indicates functional recommendations.



Forbidden!

Indicates forbidden activities.



Caution!

Refers to user instructions of the tool.



General Box

General Information

(2-1) Company liabilities

Polaris Co.is not liable for any problem involving the following: Failure to follow the instructions of this manual (incorrect use of the product), repair by an unauthorized person and part replacement without coordination with the after-sales service department, failure due to power fluctuations.

(2-2) Guarantees

Guarantee of this product includes repairs, supply, and replacement. If used appropriately, the guarantee of Polaris Co,will cover all main parts of the device for 18 month.

Following cases and parts are not covered by guarantee:



- power fluctuations
- incorrect transportation of device
- inappropriate and frequent use of device despite having obvious flaws
- not observing the maintenance instructions
- installation by unauthorized persons
- any repair or replacement by unauthorized persons.
- power cable and keys
- protective shield



Commutation fees of company representatives to install or repair during guarantee period will be received from buyer at site.



The device can't be used before installation and insurance of correct operation of protective parts.

It is highly recommended that user has a general knowledge of this manual before using this device. The cases which appear to be operation flaws in the device should be registered by user and they should be sent to the after-sale service department.



General Information

- Authorized representatives of Polaris Co.
These persons are endorsed by the company to work on the device under any operational circumstances. They are also authorized to do any electrical and mechanical adjustment/repair, maintenance program and authorized parts replacement.



General Box

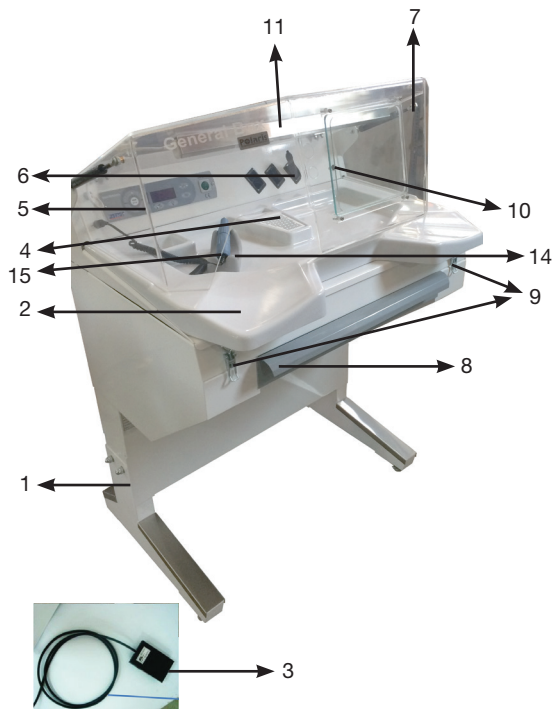
Device Introduction

(3-1) Main parts description

The main parts of the General box product are the following:

(3-1) Main parts description

- 1.Base
- 2.ABS sheet
- 3.Pedal
- 4.Outlet suction insoles
- 5.Micro-motor panel
- 6.Blower
- 7.Protective shield (overlay)
- 8.Drawer (tri)
- 9.Sheet hook
- 10.Hand-piece socket
- 11.Light
- 12.Electricity outlet
- 13.Pedal socket
- 14.Plastic Pad
- 15.Hand-piece
- 16.Suction bag



POLARIS General Box

Technical Features

(4-2) Technical details

Technical specifications of the General Box are given in Table 1:

Power supply	210-240V AC 50/60 Hz
Power	1400 W
Device height	860-1000 mm
Device width	600 mm
Device depth	1100 mm
Net weight	90 Kg

Table 1 Table.The device technical specifications

Accessories

The device box includes General Box device, electricity cable, and this instruction manual.

Part	Number
Hand-piece	1
Plastic Pad	--
Suction bag	1
Pedal	1

Table 2 A list of product accessories

POLARIS General Box

**Transportation and
installation**

In order to avoid accidents, it is really important to follow the following instructions during the installation and fixing of equipment. All steps are explained in detail:

(5-1) Unboxing

Having received the device, make sure that the main box is sealed and intact. Otherwise, inform the after-sales service department of Polaris Co, or its authorized representatives.

(5-2) How to move the device

The device should be moved as follows:

- 1.Unplug it from the power source
- 2.Disconnect all the connections.
- 3.Empty the contents.
- 4.Put the device in the designated box and if the box is not available, follow safety instructions for protection, because the company is not exposed to transportation risk and has no obligations towards it.
- 5.The device should remain in a vertical position during movement. For more safety and prevention of any injury due to neglecting the technical details, refer to section 4-2.



Failure to follow the aforementioned instructions results in device being damaged, and Polaris Co, won't be held liable.

(5-3) environmental circumstances

It is important to choose an appropriate environment with following conditions during installation and operation for personal safety, correct operation and long lifetime.

Workplace temperature: 0-40°C

Maximum humidity: 75%



The device should not be used in a place where there is danger of explosion or firing



The light of the place should be high enough so that all parts of the device can be seen clearly.



The device should never be exposed directly to sunlight or humidity of rain, etc.



General Box

Device Application

(6-1) Device initiation

- Put the table on a stable and smooth surface
- Connect air branches to the air inlet.
- If the device has a turbine, it must be connected to the metropolitan water,
- plug the device

(6-2) Device settings and application

In this stage, the user must adjust the General Box for application:

- 1.Power button: to turn on the device
- 2.FOOT and Hand buttons: to change the hand-piece function in pedal or manual mode
- 3.Clockwise-counterclockwise button: to adjust the condition of hand-piece rotation to Rev and For modes.
- 4.Lamp button:
- 5.Suction or vacuum cleaner button: It is used to turn the socket on and off (In manual mode).
It should be mentioned that by pressing this button for a few seconds, the system enters suction adjustment mode and by pressing the arrows, suction can be adjusted between 0-100 and by pressing the suction key, the desired speed can be saved.
- 6.Autokey: This key is used to place the system in automatic mode so that the hand-piece rotation and suction work at the same time.
- 7.Arrow keys: They are used to adjust the used elements (hand-piece speed, LCD light, suction power and etc)

8. Stop and Run button: This button is used to start or stop the hand-piece rotation, so when the system is in Hand mode, by pressing this key, micro-motor start rotating and by pressing again, it stops.

9. To adjust the LCD light, press Manual and Auto buttons at the same time and you can adjust it between 0-100.

In case of hanging or locking of the panel, you can press Auto and down arrow to reset to factory settings.

All the sent and installed panels are checked for quality and are calibrated.

In order to start-up the device, you need at least 5 bar compressor air, metropolitan gas and electricity with earth connection.



General Box

Safety

(7-1) general safety

Users are required to read and always follow the listed suggestions and warnings here; following these instructions will assure a long-term, flawless operation for the product.

- In order to connect the hand-piece or the pedal, note that the excrescence must be placed exactly on the hand-piece and pedal slot on the body.
- Empty the suction bag periodically.
- Do not let the hand-piece touch the ground.
- The environment must be clean, completely bright and free of obstacles
- If the user detects any malfunction, the device must be stopped immediately. The device must be unplugged and you should contact the after sales department of Polaris company and consult them.
- Seriously avoid opening pneumatic and electrical parts.
- Never replace the power supply or parts which are directly related to the plug.
- Operation of this device for applications other than those mentioned is forbidden.
- Never use benzine or combustibile solutions for cleaning the device. Use noncorrosive, noncombustibile and nontoxic materials.

(7-2) Device safety measures

Polaris Co. makes use of high-quality raw materials for advanced production processes to promote the safety level. Quality control is performed in three stages of input, middle control, and final control through several control stations, a procedure which minimizes error and defects chances.



To assure that the device works safely, follow all the aforementioned steps.

In addition to the safety fuse and valve the appliance is composed of the following main components:

- 1 Secondary switch pressure activated at 8 barlt
- 2 The possibility of turning off the appliance manually

When the safety valve is activated:

- Turn off the heater and press the main switch to the 0 positions.
- Release the pressure through the gun until the pressure indicator shows a pressure of 4.
- Turn off the machine and contact Polaris Companies after sales service unit.



General Box

Maintenance


(8-1) cleaning


Keep the device body clean using a dry cloth. Wet the cloth with little water or a non-greasy solution, if needed (only do this for body cleaning).

Users should make sure the device is kept clean and free of dust water and other unexpected solutions.

At the end of each operation and when the device is on OFF mode and stable, cleaning should be done.

If the user decides that the internal parts need cleaning, he/she should contact the after-sales service department.

-  Put the main button on the off position before cleaning external parts of the device. It is forbidden to clean the device while it is plugged.

-  Never use combustible, corrosive, base or toxic solutions for cleaning the device.

(8-2) periodic maintenance

Inspection and periodic cleaning of the device depend on the operation level. It is suggested for the user to inform the company experts about the workflow through consultation after installation and learn the appropriate time for an inspection and periodic cleaning from them. If the user detects any damage or exhaustion during periodic inspections, he/she should contact the after-sales department, so that measures are taken for maintenance and compulsory service.

Periodic service should be determined by the user and is performed by the after-sales service department. It is suggested that the maximum time interval for periodic repairs be 12 months.

If a user detects any defects or problems on the device, he/she should place a warning sign on the device to indicate that it is being maintained and it should not be used (EC warning signs can be purchased at the associated stores).

Cleaning, periodic maintenance and appropriate use of the device are important factors in lifetime and safety of it.



When any defect is seen in the device operation, it is forbidden to use the device before solving that defect.

(8-3) Suction bag replacement

In order to replace the suction bag of General Box device, you must follow these steps:

1. Unplug the device.
2. Open the sheet hook.
3. Replace the suction bag.
4. Immobilize the sheet by means of the hook.

Calling the aftersales services Unit of Polaris Co.

Tel: +49 (0) 21033373500 Fax: +49 (0) 21033373550

Web: www.polarisgmbh.com

Email: Service@polarisgmbh.com

